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Office Location and Its Structure

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Office Location and Its Structure

Introduction

In relation to the positioning of the Ad Agency headquarters in Austin, I will pick the new office to be situated in the Fayetteville, North Carolina. In relation to the agency, needs related to the office I will have a one on one talk to the 50 employees who are to work at the building on the same. The employees will decide what the convenient hardware and the software that will make them perform better are. I will also want to know if the workers who will wish to the mobile connections to those who will require an office that is remotely connected. The office will need a ¹remotely print to the billboard printer within Austin Texas, the ever best internet connection where they would get fiber optic. Most fiber services, including GoogleFiber, have download speed up to 1000 Mbps, which is very efficient in the office functioning and activities.

The management will be able to choose from the LAN topologies that best suit the office. The LAN topologies include bus, ring, star, mesh, cellular, and the hybrid topologies (Gangland, 2018). Star topology is a connection in which all the devices like the computers are all connected a standard hub where all the data is shared. The star is usually easy to troubleshoot and connect as the problem can easily be isolated and resolved.

Bus topology, all the ³devices are connected to a particular linear cable known as the trunk. The trunk is usually ²discharged to avoid rebounding of signals up the cable. Ring topology is where the devices are all connected to a closed-loop cable where the source the data from. In this topology there are no terminating ends in that when the system crashes the full system goes downward with the crash.

Mesh topology is the simply true to point connection design which utilizes a dedicated link on every of the device to connect. The mesh topology is never extremely practical since of its extreme waste on the communication of the media. It is usually very complicated to install as well as reconfigure.it is usually so easy to troubleshoot these topologies because the links are independent of the other links. With different links, it's typically easy to discover a problem and resolve it by isolating the trouble-causing link to the system.

Cellular topology is a combined wireless multipoint design that divides zones to geographical cells with each cell representing the portion of the total network area in which the connection operates. The devices in this connection correspond to the hub within which the hub is interconnected to the route data between the existing cells.it is usually easy to connect and does not require reconfiguration in case one wants to add or disconnect a user. The problem with the cellular connection failure in the hub will stall all the activities reducing the effectiveness and efficiency that is required.

A hybrid topology is a combination of the characteristic of the pure network topologies to come up with it. The hybrid topologies include tree network and star-ring. The hybrid tends to borrow knowledge of connection and installation from the other topologies. It can be said to be a mixture of topologies to come up with a modified topology. It contains the advantages and the disadvantages of the simple network topologies that are used up to come up with the hybrid.

The best of the three to pick on for the office is the Mesh topology because it's so easy to connect the LAN topology. In case of any troubleshooting, it is also easy to resolve as the affected one is disconnected from the system to allow the other devices to continue with the operations. It's also because the mesh allows for the devices to be interconnected to each other.

When considering the hardware and the software, they will include computers, pc desktops, telephones, and network equipment like the routers and the switches. In the software, operating systems and the security program will be included. The software and hardware purchased for use should be ordinary and abiding by the principles of the agency.

Teleconferencing will be highly regarded for communication purposes. The routers will provide for the network needed to run LAN and the systems (Le&Nguyen, 2012). Printing configuration is necessary to ensure that the device function under the internet set in the office. The bandwidth required to serve in the office is of speed of 50mbps inbound server, and an outbound server of 312mbps will enhance for the optimal performance of the systems installed.

The errors to affect the system can be: a random bit error, burst errors, and the cross-talk echo. The troubleshooting techniques to employ in such errors are usually employed to get back to full efficiency. To get rid of the error the systems' software are updated, and reinstallation of the operating systems can also be done to do away with the error (Dahouk & Abu,2018).For a case in which the Mesh topology is connected the affected connection can be disconnected to allow the other devices to operate as it is being worked on. With all the systems put in place, the system should be able to operate efficiently resulting in better results for the Ad Agency.

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